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Bold Treatment for CORVETTE see page 16

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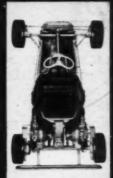
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ONLY 10° DOWN PUTS YOU ON THE TRACK IN THIS SENSATIONAL NEW

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CARS OF EVERY KIND

LYNN WINELAND
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BOB GOTO

THE MINI-BIKE-A BOON TO MOBILE MANKIND

SAN MATEO SHOWMANSHIP

HOT IN THE DESERT

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MAY 1961

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E. E. PETRESIN WALLY PARES
publisher additional directo

LEE EYAM AL ISAACS
general monager cover ort directo

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MAY, 1961

HER METCALE

DON'T READ

ROD & CUSTOM!!!!!

Right!...Don't consider subscribing to R&C unless you're interested in only the best hot rods and custom cars. R&C's editors believe in providing their readers with details and facts on outstanding cars like the Summers Bros. Chrysler-fired, rear engined T roadster. Trips to the drags, top auto shows, Bonneville, cycle events and grass roots probing into hidden garageswhere new iron is under the torch provides you with complete information on exciting new trends. Torsion bar suspension, fuel injection, independent rear axles, blower drives and hop up procedures all fall under the careful scrutiny of the R&C staff. No, ... if you're in the group that hides poor construction and design with angel hair and aluminum foil or covers bad metalwork with pleated upholstery, don't read Rod & Custom . . . It's not your kind of book. BUT .. if you're a real, dyed-in-the-wool rodder who can't stand phoney, flash-in-the-pan, would-be hot rods -- the kind of guy for gal) that thinks a custom is an improved version of a stock car and not just a finned scooped and scalloped blob of inanimate metal - ROD & CUSTOM MAGAZINE is for you and you won't want to miss an issue.
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. ***



FTENTIMES IN THE unceasing quest of a preset goal something worthwhile is achieved which goes relatively unnoticed as just another rung on the upward ladder. So it has been in the world of rods and customs. Years ago - and not many at that - a group of car enthusiasts, this writer among them, banded together to organize hot rodding activities. The ultimate goal was to obtain facilities across the nation where cars might be run legally and safely; an outlet for the enthusiastic energy of mechanically bent youngsters. Once organized as the National Hot Rod Association the first steps were taken in a drive to improve public relations. The leaders of NHRA realized all too well that the term hot rod needed a new connotation in the eyes of the rank and file. Clubs scattered across the land were organized and helped in their efforts to sway public opinion. Car shows were staged, charities assisted, the needy cared for, safety checks held and the gaze of government officials directed to a wholesome sport worthy of their support.

Gradually, as local groups with the backing of NHRA Headquarters began to push for recognition, the long-sought facilities were made available. Drag strips began to materialize on little-used airfields and were carved from level farmland. The drag racing program was underway. As the impetus grew stronger, the competition aspect grew to dominate the picture and the long awaited goal was achieved. Today competition is on a national basis semiannually,

a weekly event in local areas,

Somewhere along the line the concentration on worthwhile activities of the car clubs took a back seat. The desired result had been achieved and it was no longer mandatory to place the emphasis on good public relations. Many young men, attracted to the sport by the car club program had no particular interest in drag racing, thus when the club program began to taper off these men were left behind. One of the principle rungs of the ladder to success had been literally stepped on. The time to refocus interest on club activities has come. Let's not forget the members of our sport who are socially and civic-minded as we romp headlong toward faster speeds and quicker e.t.'s. Most of all, let's not forget the public and their short memories of the good we've done and their quick condemnation of our shortcomings. We could find ourselves in the same spot as we were a dozen years ago.

NEW WORLD CHAMPS

SPORTSMAN CLASS



HOMELITE K-92 ENGINE

DAVID LATSHA

NABBAU: A Spitfire-Special Kart powered by two Homelite K-92 engines took first place in the combined B&C Sportsman Class in the Second Annual International Grand Prix De Kart World Championship races, held in Nassau, Novembes 91-through 23.

The driver was David Latsha of Camp Hill, Penna.

Designed to run at full throttle hour after hour, the new Homelite K-92 is precision constructed throughout. Ball and needle bearings, domed aluminum piston, and Homelite's famous pyramid reed valve make this great Kart engine unequalled for smooth power and performance.

Get the full race-winning story at your local Homelite Dealer's.

\$9995

including universal mounting brackets FOB nearest Hamalita branch

K-88 SPECE

Weight: 12 fbs. 8 ozs. (including mount

Carburster: Pump diaphragm, Manual choke.

Ignition: High tension flywheel mag

Valve: Homelite pyramid reed Bore: 21/4" Streke: 11/5"

Available Accessories: Clutch, ai cleaner, starter and various size

New Stroker Kit \$37.60 Contains cylinder and crankshaft to increese displacement of K-92 engines to

creese displacement of K-92 engines to 5.8 cubic inches and increase horsepower up to 15%.

DEALER INQUIRIES INVITED



HOMELITE

5605 Bluerdale Avenue Port Chapter New York

OUR READERS WRITE-or wrong

E & C HELPS OUT

Enclosed is a picture of my '30 Ford Coupe, which I have been working on the last two years. I have performed all the body and engine work myself and soon, hoping to finish within the next year. The engine is a '58 Olds J-2 with a '37 La Salle floor shift run through a Caddy rear end. It also has a hydrau-





lic clutch, radio, heater, two electric fuel pumps and truck clutch assembly. I have many plans for the engine but no money. So far it cost me around \$1000, believe it or not. I hope my ambitions will rate a small space in your inspiring magazine. I would also like to say, without your magazine I would not have solved the many problems I ran into.

Louis Sacco

Detroit, Michigan

CORRECTION FROM CANADA

I am very pleased to see that Ontario is beginning to get some coverage in your fine magazine. I enjoyed your article in the February issue on the rod and custom show at Welland very much, with one exception – the four cylinder dragster depicted on page 57 does not belong to James Cowan as stated, but o Graeme L. Yanocko. Mr. Cowan merely did some valve work for "Gray".

Gray did most of the work on his dragster at his own speed and custom shop, Gray's Powerhouse, R. R. #1, Simcoe. Gray runs at Koehler Dragway at Cayuga, where he turned the Canadian Championship record of 118.92

mph.

For the past four years Gray has been an active member of the Tri-County Trompers Rod & Kustom Club of Simcoe as well as the Automobile Timing Association of Ontario. His valuable advice and experience has been sincerely appreciated by both organizations and we consider him as one of the truly great Canadian "Hot Rodders".

Keep up the good work and I hope to see more coverage on this side of the

border in the future.

Jerry McCairns President, Tri-County Trompers, 332 Queensway W., Simcoe, Ont,

 Our apologies for the misinformation, R&C is always happy to publish reports on shows and drags from the other side of the border. Many of our regular readers are Canadian and some of our better features have been of rods and customs from the land to the north.

MORE LAUDS FROM CANADA

Thanks ever so much for the excellent coverage on the show held in Welland, Ont. It's a real pleasure to think that we're being remembered even though we don't go at things in the big way you do down there.

I have no moans or groans about your publication but live only for the do it

yourself projects.

Thanks again for the most complete magazine on the stands today.

Sincerely, John M. Wiley Peterborough, Ont.

RODDING, KARTING CATCH ON "DOWN UNDER"

I am a constant reader of your mag, and have enclosed a drawing of one of my 'Forty Fords, which I hope will find a place in "Our Readers Write" column.



I am 16 years old, and in 2 years time, when able to hold a license, would like to build a real "hot" rod. The type of crate I would like to make is a Forty Ford. At the moment, I would like a little information on how to lower the front end of a 'Forty without the use of "shackles".

Here, we have just opened our first go kart raceway. These karts are catching on like wildfire. A couple of cats I know, have one; they're the most!

I have also noticed around town that a few of the older kids have made rough rods, but have fairly good ideas incorporated. We started to get your fine mag about a year ago. I guess it was a case of better later than never for us "Down Under".

Alex Schuld

Malabar, New South Wales, Australia

The tidiest way to lower the front on any of the "A" through "48 Fords is through use of a dropped axle. The axle is replaced with a stretched or extended unit having exactly the same measurements except for the king pin holes which are located higher than stock. Up to 3" of drop are used on the "A" through "34 models, and 1¾" is about maximum for later years because of the fenders, which should be trimmed even then. If you can't get the item on an exchange basis from the States perhaps continued on page 12

ENGINE SWAPPERS!

Part Two of "Fit a Feathered Ford to Your 'Forty Freighter" begun in last month will appear in the

JUNE 1961 R&C On Sale April 25th



Thrill to the smooth surging power of a '61 Triumph! Reach a new high in real motoring excitement, 'cycling satisfaction!

Never before in motoring history has the connoisseur of fine-engineered, precision-built machinery seen such a compact package of pulsing power mounted in frame or chassis . . . two-wheel or four! See your Triumph dealer for FREE demonstration ride!

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From the Home of Champions NEW

SHOCK MOUNTIED

McCULLOCH KARTS

with major advances

Detachable rear axle unit affords multi-class racing!

From the house of world-renown McCulloch engines comes the fabulous R-1 (racing kart) that will obsolete all existing karts.

The biggest innovation is McCulloch's new rubber-mounted, detachable rear axle unit. In effect, the kart chassis consists of two separate sections. This permits you to switch rear sections and race in several different classes within a matter of minutes. The shock-mounts insulate engine vibration from the frame and steering wheel. Both driver-fatigue and metal-fatigue are sharply reduced, and the life of the kart is extended. It's the greatest engineering advance since karting began.

But here's morel This new kart has Ackermenn steering similar to the Indianapolis race cars. Your inside wheel autumatically corners tighter than your outside wheel, preventing front wheel drag and providing more positive control on turns.

New chassis strength! Every frame weld on this new McCulloch kart is contour-fitted before welding—not just butted together.

New exclusive fail-safe front spindles! Hardened one-piece for safety.

And other features! Live rear axie, 1" fullkeyed; tapered automotive-type roller wheel bearings; aircraft-type disc brake; magnesium wheels; baffled gas tank.

See and drive this exciting new kart at your local McCulloch dealer today. 8-1 prices start at only \$230 (less engines). New McCulloch F-1 (family kart) and C-1 (concession kart) also available. Only the new McCulloch karts can match McCulloch's famous engines!

Go with the champions. Go with McCulloch

Write for free literature on McCulloch's complete line of karts, engines and accessories.

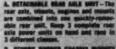
McCulloch Corporation - 6101 West Century Bled., Los Angeles 47, California Dept. RC-6

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a. STUNDY REGION CHARGES MODERN oliminate metal to metal carticle to twoch power chancis and rest of fart Eight taugh, resilient shack absorber imulate engine vibration from her frame and oliming wheel.

 TWOULAR STEEL Plantiff is of leading apolic space-frame design for combine funibility and strength. Form fifth works interfect change sections in one solid, long leating unit.

B. ACCORATELY EMPINEERS ACKED-MARKE STEEMEN designed for powerthrough cornering, climination wheel drag on turns. Visit your McColleck design and turn the wheels. You'll ose the difference immediately.

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3- Page House, Tool

MAY, 1961



NEXT MONTH ...

MODELSVILLE-

Shows, How-to's, New Kits, Tools

OFF THE SKETCHPAD-

'36 Ford 3-Window

THE NEW FORD ENGINES-

Part III

Heads, Valve Train

ON SALE APRIL 25th

OUR READERS WRITE

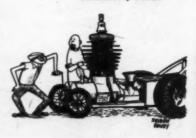
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a competent welding shop with large forge could do the job locally from your directions.

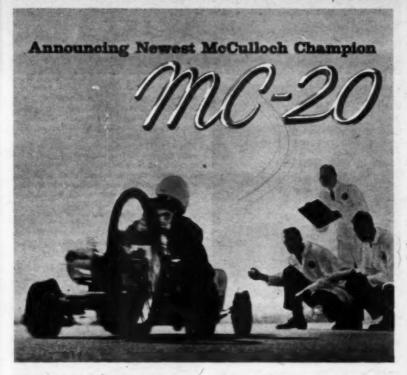
PLEASED !

I was very pleased when I saw the February issue of R&C on the newsstand rack. Thumbing through, I was even more pleased with it, For many months my purchasing your magazine was only an action of an old habit, Refore the days of the kart, I had purchased every issue from the time I knew such a magazine existed. Those months of karts resulted in my buying an issue and finding only a couple of pages of customizing and soon I was skipping an issue here and there. It isn't that I think karts and the like should be ignored, but for a while I wished that you had. Anyway, the February issue was greeted with a sigh of relief. Rod & Custom is once more the interesting magazine concerning automotive hobbies and professions. Personally, body restyling is the phase that fascinates me. For some years in the past and probably for some in the future my customizing is limited to models and drawings, but, after college, my fondest dream is a Corvette with a custom body and interior designed by myself. Someday, someday! Please keep R&C a well-rounded little magazine and try not to join a fad. Stay as you have returned!

A returning reader, Charles Chaney Commerce, Texas



. I OUT IT SCHOOL-HAND AT A MADE AMERICAN SCHOOL,



Most powerful kart engine per cu. inch in America

It's unbeatable! It tops even the famous McCulloch MC-10 that has won every important karting event for years! It's the ultimate refinement of America's championship line of karting engines for every class – from McCulloch, the company that has led the field since karting began.

MC-20. A name you'll never forget once you see it in action. Completely new with these unbeatable features: Weight - 10 pounds • RPM - 12-15,000 • Bere - 2.125 • Compression Ratio - 9.1:1 • Displacement - 5.8 cu. in. • Streke - 1.635. It's packaged dynamite!

EASIER STARTING due to new "optimum timing" ignition. New high-pressure magneto-flywheel. McCulloch moisture-proof coil. COOLER RUNNING thanks to new controlled air-turbulence created by scientifically-designed engine shroud. MORE "DIG" AT LOW RPM's with new multispeed full-bore carburetion coupled to new powerhead design. It's the "professional details" that help you win. Look at these: Pisten—lightweight aluminum racing piston with two thin, longwearing chrome-plated rings. Cylinder—New die-cast deep finned aluminum alloy. Thicker walls. Added fin for quick heat relief. Crankshaft—New lightweight moly-steel alloy. Precision honed, mounted in improved bearing system. Rods, pins, fuel system—new, all new.

The MC-20 and the class winning MC-6 are available at your nearby McCulloch dealer. MC-20 list price \$135.00 F.O.B. Los Angeles. MC-20 list price \$137.50. Dealer inquiries invited.

Go with the champions...Go with McCulloch

Write for free literature on McCulloch's complete line of karts, engines and accessories.

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"McHai Flip Back Bubble Shield Kit" only \$11.95, From now on your "McHal Flip Back Bubble Shield" replacements will only cost you, \$4.95 instead of the \$7.95 you have been paying for your "Flip Up" bubble shields. Just snap off damaged shield, and snap on replacement shield, using the patented "Pull the Dot," safety snap, that will only come unsnapped when you unsnap it, not by accident. It's as easy as that and you are \$3.00 ahead. Adaptable to your helmet in five seconds, no measuring, no drilling, no glueing, no waiting. Kit with single shield available for \$7.95. Dealers inquiries invited. For descriptive literature clip this product release and mail to address below, McHal Enterprises, 583 No. Prairie Ave., Hawthorne 14, California.

An exciting 8 MM Color film of the 1960 Indianapolis "500" is now available for purchase. Producted by So-Cal Productions, it tells the complete action-packed story of this great event—the pre-race preparation — the dramatic start with 33 cars in perfect formation —the almost unbelievable 20 second pit stops — and the greatest duel in Speedway history between Roger Ward and Jim Rathman right up to the checkered flag.

Color Film (150 ft.) and descriptive Booklet — \$15.95, Send Check or M.O. to:

So-Cal Productions, 1104 S. Victory Bivd.

Dept. 3, Burbank, Calif.





National Hot Rod Association announces the publication of its 1961 Official Drag Rules Handbook, All requirements for classification and safety regulations to run on NHRA strips are clearly listed and all National drag records and World Championship points accumulations will be based on these requirements. Get yours today so that you will be "in the know" and possibly save yourself a lot of time in preparation, Send 50% today to: National Hot Rod Assn., 1171 N. Vermont Avenue, Los Angeles 29, California.

mart

The handiest tool kit to be found anywhere is in the plastic display case. Ideal for all those little jobs that require small tools to get in cramped quarters, the ratcheting Socketool makes quick work of minor repairs, Durable is the word for the sturdy, solid grip handle and the selection of straight and angled extensions allows you to operate the tool offset for better leverage; even a double offset is included. Other sets are available in smaller sizes and packaged in vinyl, roll-up cases. Displayed just below the kit is Shelton's famed Versatool, a handy-sized screwdriver with a selection of three tool steel blades, again with the universal ratcheting head. Look for the Socketool and Versatool at your local hardware or auto supply store. If you don't see them write direct to Shelton Products, Inc., Shelton, Connecticut.





"The 1960 National Championship Drag Races" lámm sound and color film is now available on a rental basis at \$12.00 per day's use—including pastage and insurance. When applying for rental, list date you are planning to show film, plus 2nd and 3rd choice dates. Make check or money order payable to National Hot Rad Assn., and send to: NHRA FILM LIBRARY, Room 204, 2304 Huntington Drive, San Marino, California,

A fumiliar, fine product in new wrappings is found in the new, 12 ounce can of Steen C. Handier far the 2-cycle enthusiast, be he a mini-bike rider, karter or lawnmower man, the new size allows easy mixing in proper ratios with gallon lots of fuel for proper lubrication and clean burning. The SAE 20w-40 lubricant is a pure chemical and will not settle out in mixture, nor can it form carbon. Steen C is recommended by many monufacturers for use in their products. Ask for the handy blue, white and arange can at your dealers. Available at dealers and distributors everywhere, just \$1.25. For information write Steen Lubricants, 19 East Yalley Blvd., Alhambro, Calif.



MC

ROD & Custom

H. there's something yellow well hinds tempes running ahead of you it doesn't necessarily mean you have a ...

TIGER BY THE

14

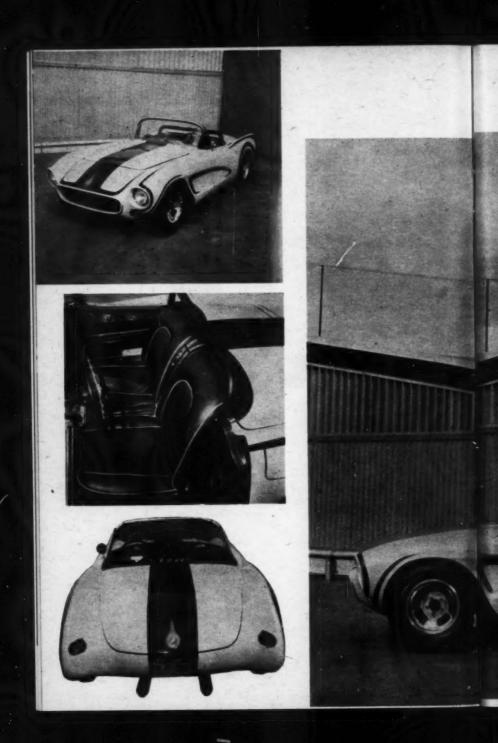
DOD & CHISTON





Collision often marks the beginning rather than the end of a car belonging to an avid customizer. Such is the case of Ronald Rodden of Castro Valley, Calif., and his 1957 Corvette. When the front end was demplished in a wreck, Ron decided the time was ripe to really do something different, With help from Red Lee and Every Robinson of Automotive Artists in Oakland, California, and his wife Phyllis, Ron proceeded to rebuild the car. The nose and front fenders were extended and special headlight openings made using Corvette rims. The grille was made up of 1/4" x 1" aluminum bar. Changes in the side view stem from removal of scoops from top of fenders, fender trim and door handles. Mag wheels and blackwalls look very businesslike.





TIGER BY THE TAIL

Barr funder this work started at the middle of the deers and unlessed reserved with a slight realise. Pite also corne its surface, the last corne its surface, respectively. The also corne its surface, religions of the incide of the fine, religion of Corvette insurings. The frust modellies was reserved and license was recessed into posel below dother lid. Special mode enhance place were made from their below dother. Its probability is black November with yellow needing. Intil her was also uphaletered in November with yellow needing find the was also uphaletered in November 1. Region meditantens income triple caries, milled beauty, Dunton and handers. A few speed Corvette trustantation, Post-fraction treer and, Traction Masters and Sabring spoic stearing \$1 are



THE MINI-BIKE:

a boon to mobile mankind

by CARL KOHLER

TRAFFIC PROBLEMS seem to be increasing all over the world. Because there seem to be more people than ever before, there also seems to be more traffic than ever before. This is probably because people have a fondness for moving around. That the Traffic Problem threatens to soon become quite acute is proven by reports constantly coming in from the four corners of the earth. Once peaceful, remote jungle trails are heavily clogged with traffic. Deserts are chaotic badlands of traffic, From the turnpikes of New York to the freeways of California – traffic is a major headache.

Everybody seems to be on the move—and everyone seems to be in somebody else's way most, if not all, of the time.

I should like to submit a solution which mankind—intent upon its automobiles, its sportscars and its karts—apparently has overlooked in all the confusion. I suggest that the humble Mini-bike can easily solve every traffic problem currently baffing and enraging all the communities of the world.

Ridiculous, you say?

Well, let's examine the possibilities and see exactly how ridiculous or sensible this unpretentious solution might be,



Illustrations by Don Jelley

The Mini-bike is small. The Mini-bike is economical. The Mini-bike is smart. On those three premises alone, an entire nation (ours) has recently lost its collective mind over all manner of



strange and unlikely vehicles which are sometimes called compact cars, other times referred to as economy cars.

Why not Mini-bikes? They're smaller than small cars. They're much, much more economical than the compactest of cars. And, thanks to their timeless, pleasing designs, they offer a sophistication well blended with a wholesome plainness which should delight and

ke

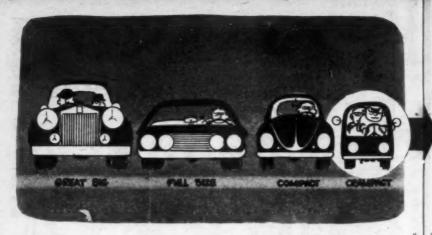
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MC



MINI-BIKES

continued

satisfy people of varying tastes and demands. And since our basic American philosophy is that of The More That Can Be Gotten Of A Thing, The Better It Must Be — Mini-bikes qualify very nicely: I unconditionally guarantee you can get more Mini-bikes into the average garage than any other mode of motorized transportation.

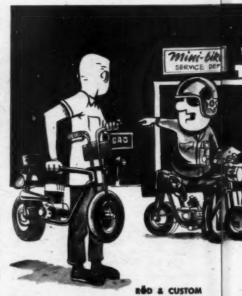
And at far less cost, yet.

We, as a nation, have been accused of succumbing, imperceptibly and steadily, to an alarming state of physical "softness." Yes, it's a dismayingly true fact: We are getting pretty soft and we can thank all the myriad niceties of personal comfort which have been constantly improved and added to our vehicles for this tendency away from physical fitness.

The Mini-bike would correct this untoward, national state of softness. Nobody is going to stay soft very long if they're riding around on a Mini-bike Mini-bikes are better than a Vic Tanny course, a daily walk of ten miles and a diet of lettuce and spring water when it comes to putting anybody in a condition of physical hardness and quickly toning up the muscular system.

There will, indeed, be few 90-pound

weaklings in America — once Mini-bikes are the national mode of transportation. And the best part of it all, is, even a 90-pound weakling can easily manage a Mini-bike when it comes to lifting it



over a curbing or carrying it tenderly into the garage at nightfall.

Mini-Bikes would do much toward encouraging a more sincere atmosphere of genuine brotherhood, true democracy in the country. As it stands, most motorists behave in an unkindly and (frequently) antagonistic manner to one another. This is certainly not a national characteristic. If anything, this demonstration of selfishness and minor cruelty is the sad result of traffic problems and their deplorable reaction upon the suffering motorist.

However, can you not imagine vast hordes of Mini-bikists — their happy, relaxed faces wreathed in kindly smiles — nodding fondly to one another as a huge, smoothly-moving traffic of Mini-bikes goes to and fro upon the public thoroughfares and byways? There will be no jam-ups, no snarls because the Mini-bike is small enough — even in large numbers — to make traffic snarlups almost impossible on the size of the present roadway.

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There is small possibility of snobbery or condescension (a current evil across the land, spawned in many a murky sportscar showroom by ethicless salespeople who would appeal to the worst in people if it sells sportscars) continuing on our roads, bringing with it the usual percentages of accidents and tragedies resulting from active snobbery and superiority in action where courtesy and patience might have prevented many an unfortunate accident.

It is literally impossible to effectively be snobbish or to successfully play the superior personage while seated upon a Mini-bike since the Mini-bike—due to its unassuming design and cheery functioning—simply does not lend itself well as a vehicle for those who need an air of finer-than-thou in order to venture into public.

It would be reasonable to estimate that the lowly, but powerful, Mini-bike would erase all traces of discourtesy, unkindness and dangerous self-right-eousness within a generation - were the American Public to adapt their transportation needs entirely to this vehicle.

Naturally, it is not suggested that Mini-bikes attempt to replace ambulances, fire engines, delivery trucks no police cars. These must serve a different purpose in public road-life and the

continued on page 52



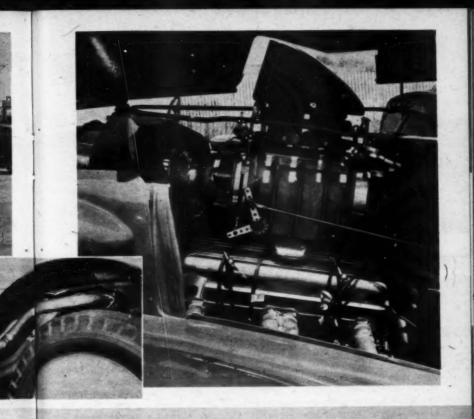


blown to boot!

A desire to build a record-holding car ted Dave McClellan and Mac Jameson of Santa Monica, Calif., to build their '38 Chevy coupe. The six-in-a-row was replaced with a 265" Chevy V8 and 4-71 GMC supercharger. An Engle cam, Forgetrue blower pistons with Perfect Circle rings and Schiefer flywheel and clutch are used. Power reaches the asphalt through '38 LaSalle trans, a Halibrand quick change, '39 Chevy axies and M&H Racemaster slicks. Car holds 1320 D Gas record of 110 mph in 13 seconds.

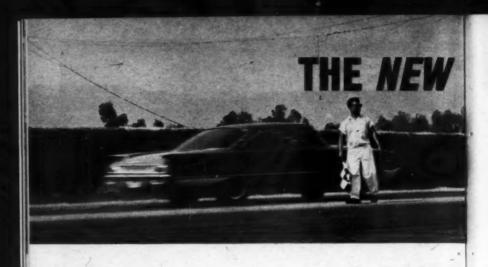
photos by dave cunningham







STOVEBOLT



BOOKS COULD BE written about carburetion alone for the 360 Ford high performance engine. From my experience this part is one of the most important single factors for top performance; as it goes, good carburetor—good performance and vice versa.

To dwell a little on theory, the carburetor doesn't know what it's on so it will do what it was built to do regardless of the engine make and model. It will pass so much air and mix so much gas with it whether the name on the hood is Ford or Chevy, Some carbs are just matched better for different displacement and therefore do a better job on a given engine. Such is the case of the Holley carburetor used on the 360 Ford. We have found bigger carbs will not get the job done and smaller ones are even worse. We set out to refine this carburetor as much as we could and achieved excellent results.

The first problem we came across was with the vacuum operated secondaries. They were extremely slow acting and would not start to budge open before 4000 rpm. In dyno tests they could be hand operated and opened at as low as

2500 rpm under full load for an immediate pick up in horse power hence gaining a substantial increase at low engine revs. There are many approaches to opening the secondaries quicker, but the simplest way to accomplish it is to make them mechanical. The procedure we use is to first remove the secondary closing arm which actuates off the primary butterfly shaft and hooks into the slot on the secondary arm. Next. file a hole that will let a machine screw into the bottom of the slot on the secondary arm. Then get a %" long 10-32 screw, cut a piece of 4" copper tubing %" long, and insert the screw into the copper tubing. Now insert the protruding threads of the screw into the filed hole in the secondary throttle arm, put a nut on it and tighten. You now have an actuating arm on the secondaries, A plate has to be installed on the primary butterfly to strike the copper tubing and screw as the primaries open. Taking a piece of flat metal about .060" thick, bend "" flat edge on one side and cut it to " wide by the length of the primary butterfly arm. Mount the bevel toward the copper shaft. You will notice

FORD ENGINES

PART II

Secrets of Proper Carburetion Lead to Big Payoff in Performance

a guided tour of basic design, hop and tuning tips for the latest big blasters from dearborn

photos/lynn

Big Ford mill on dyno at author Les Ritchey's shop in Cavina, California, Minute changes are made between runs to calculate effect on horsepower.



MAY, 1961

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Ritchey checks a plug after dyno run in Performance Associates shop. Carbureior shown on engine is being tested for comparison with four throated Holley spoken of in text.

THE NEW FORD ENGINE continued

a hole on the primary shaft where you took out the secondary closing arm; place the plate on the primary arm and drill a hole in it to correspond with the existing hole in the primary arm. Put a screw through the plate and primary arm and tighten snufly. Open the primary throttle all the way then adjust the plate against the copper shaft until the secondaries are completely open. Tighten the holding screw very tight, release the primary arm and then spot brase the plate to the arm at the top or drill a hole through both plates and bolt.

Remove the secondary diaphragm and

cut two holes in the rubber part of the diaphragm. Stretch the return spring about %" longer, and reinstall on the carburetor. Hook it to the secondary shaft, and you have a built in return spring to return the secondary butterfly plates to the closed position.

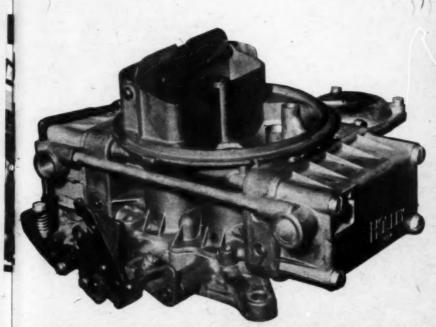
The next and last step is very important. Unless this step is done a very severe flat spot exists when the secondaries are opened quickly. Remove the secondary float bowl and metering plate, then face the plate to you, channel side up. At the top of the plate, straight up from the main secondary

metering holes, you'll see two very minute holes which are .031" in diameter. These are the transition holes which meter the fuel below and immediately above the secondary plate as they first start to open. Due to them opening up quicker than before modification and because of fuel lag this circuit is too lean and will have to be drilled to .042". Reinstall the plate and bowl, and you are ready to run, as far as the mechanical secondaries go.

The only jet changes that we've made that really help is to run .063" in the primary jet block. The power circuit

and secondaries are just right. The float setting can be adjusted externally while the engine is running and should be adjusted until fuel barely runs out of the inspection hole after removing the bowl inspection screws.

We have also found that .002" change in jets in this Holley carburetor accounts for almost a half of a ratio of mixture difference rich or lean depending which way you go, so tread easy on the jet changes. You can not be too meticulous in the carburetor department and time spent here can be well worth it in performance.



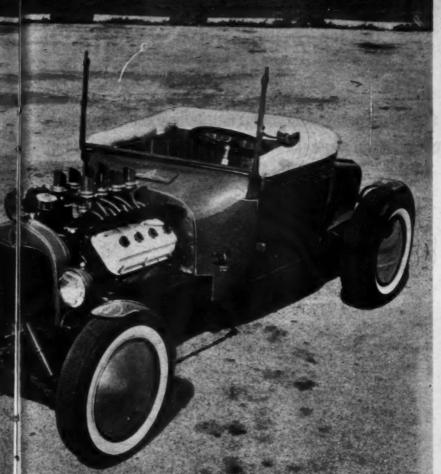
Additional plate bolted to throttle actualing arm pushes against tubing-sheathed machine screw on arm for secondary butterflies. Mechanical actuation of secondaries really helps.

MAY, 1961



photos by woody higgins

DRAGSTER



N THE BLOCKS

THE GREATEST SHOW ON MIRTH

or a dirty-birds eye view of the auto show

By HENNING and CONRAD

NOT SINCE THE days of the great showman, P. T. Barnum, has the American public had the opportunity to be so dazzled and razzle-dazzled by brightly painted wagons and plenty of ballyhoo.

The only major difference is the wording on the advance posters. Instead of "The Circus is Coming", they shout

"The Auto Show is Coming".

Oh, yes, the wagons have changed slightly down through the years. No longer are they merely the vehicles which transport the show – they are the show. The gilt has been replaced by chrome, however, and they are driven from inside instead of on top. Lest you worry because you can't find the horses that pull these way-out wagons, be assured they are still up front in the same place: just lift that lead lid, Kid!

Needless to say, there are no restrictions as to size, shape or color. Anything

goes, and usually does.

One of the leading producers of auto shows is the Kustom King himself, George Barris. George's Flair for showmanship borders on the spectacular; with search lights in the sky, pretty girls and plenty of unusual cars. Taking all these things into consideration, it is not surprising that, while no one gets "fleeced", there is certainly "wool" in a lot of eyes.

A recent Barris Spectacular was the 3rd annual Bakersfield Motor and Boat Show. An epidemic of "Show Fever" was apparent long before the first press notices hit the stands, Every paint shop and amateur striper had more work than they could handle and the chrome



"The high-finned, low-slung 'Di Die 150' from Detroit."





"I hear it's pretty fast, but does it float?"



"No, Johnny, it won't bite you, It's only a Plymouth."



THE GREATEST SHOW ON MIRTH

continued

shops filled their vats to overflowing with headers, axles and other miscellaneous matter getting the glamour treatment in preparation for the yearly exposition.

The loan departments of the local banks were also filled to overflowing; with rodders trying to borrow enough money to get their headers, axles and other miscellaneous matter out of the

chrome vats.

By opening day the town was full of excitement and gaudy cars. When the doors opened at 1:00 P.M., we discovered that the first man in line was our old buddy, Irving Throckmorton III, who had been waiting patiently in line for nearly five minutes. The next enthusiast to arrive was Norm Davis, a local disc jockey, who showed up at 1:30 with his press pass in hand.

It was Thanksgiving Day at home all across the city – and that is a possible explanation of where all the car fan-

ciers were.

Just inside the Main Entrance was the feature attraction; created by Mr. Barris himself. It was a little bat winged car of the future, which rides on a cushion of air, called the X-PAK '100' which caused us to wonder what ever happened to the other '99' models.

Although there was quite a display of local talent, the biggest attraction was the high-finned, low-slung "Di Dia 150" from Detroit. The owner and designer, Andy Di Dia, a retired dress designer, fixed its cost at \$90,000 plus.

From Los Angeles came a pre-war Speedway car which had been reduced to the status of Street Roudster by "altering" the frame, the addition of dual headlights a a '59 Lincoln, etc.

The boats were as gaudy as the cars, if not more so. One daring Aquanaut sported twin blown Cadillac engines in

a fourteen footer.

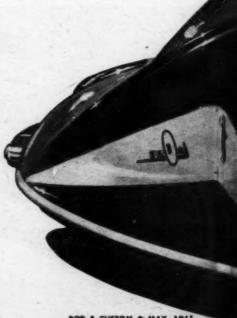
Show goers were treated to a gigantic stage review consisting of a Fashion Show with five live models sponsored by a local discount house and a dance routine by members of a local "School of the Dance", who failed to show up. Between costume changes, the Emcee filled in with some un-authoritative chatter about the cars in the show and introduced such celebrities in the audience as this author, and other unknowns, in the true Ed Sullivan manner.

The high point of each evening was reached at 9:00 P. M. sharp; when Mr. Barris personally conducted a demonstration of the fabulous air ear, during which it rose to microscopic heights.

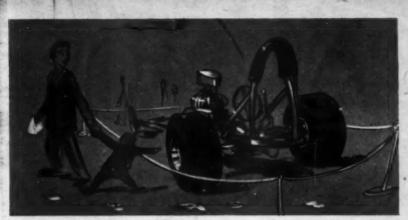
The remainder of the evening was devoted to wandering down rope lined lanes gazing at shiny chrome and trying to find a way out of the maze of cars, boats, angel hair, sea shells, dirty parachutes and Roth's sweat shirt artists.

While standing by the exit, we could hear the remarks of the departing showgoers such as: "Well, I'm never going to one of these things again".

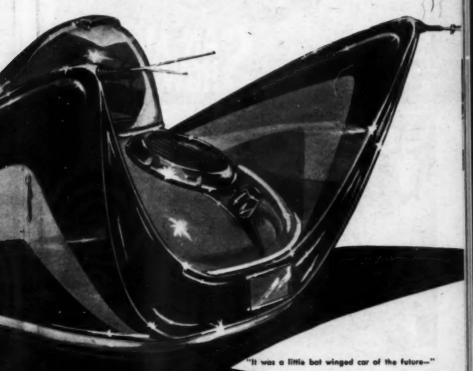
You know what? They said the same thing last year!

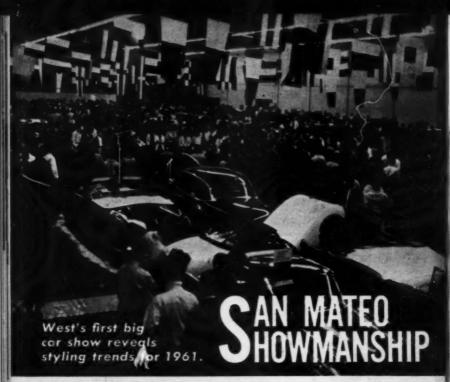


ROD & CUSTOM . MAY, 1961



"Daddy! Daddy! Look at the big go-kart!"









The 1961 show season on the West Coast started off in a big way with the San Mateo Custom, Rod and Sports Car Show, held January 6, 7, & 8, in San Mateo, California. It was the biggest yet of six consecutive years for the show and record crowds viewed over one hundred displays. R&C staff took particular notice of new trends which are showing up for 1961. Some are good and some not so good. We sincerely hope that the "wilder the better" school of thought will give way to the sensible this year and that quality workmanship will replace the trend to cover everything with angel hair, pleated Naugahyde and chrome. Some of the better trends are here for you in pictures on pages 38 and 39,

Nick LePesh brought his beautiful '40 pickup.

Joe Passalaqua's '36 Phaeton drew the crowds.



Tubular frame dragster has blown Olds engine.



Many of the well known show cars attended



Both's "Bactolk Bondit" was a big sessation.



Model A pickup of David Dies was perfection



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MOT





While B&C's '32 was in show, Ed Hayward lent staff his pickup. His '40 coupe was in the show.



Ron Brusstori displayed a variety of models. MAY, 1961



Clarence Catallo's "Silver Saphire" '32 Ford.



Pickup trend for '61 is open, finished bods.



Tasteful interiors will replace the bizarre.



Futuristic '40 sets new trend with headrests.



Well-mounted safety items gets judge's points.





Laucinner exumers sucord tehence business

Good looking wheels are going to be a must.

The wise will favor the clean and beautiful front and styles over the far-out treatment.

SAN MATEO HOWMANSHIP



The big winners will be extensively detailed.

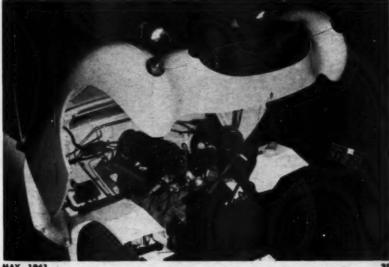


Emphasis on special engineering is forecast.





More "go" cars will be "show" cars for '61. Sprite/Corvette is example of '61 Ingenuity.



MAY, 1961

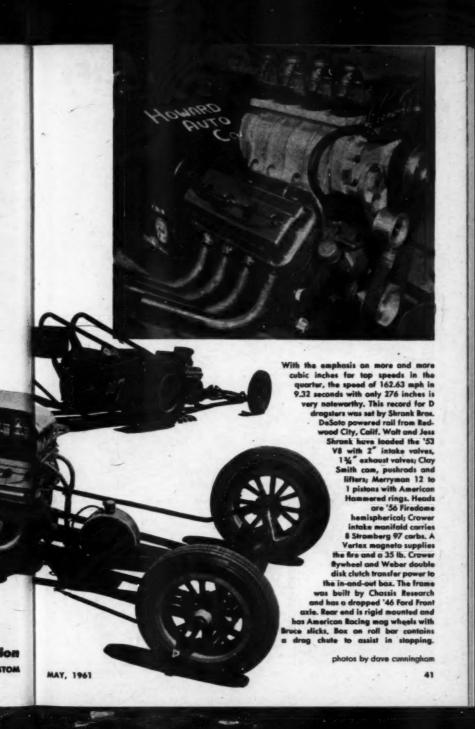
iful ent.

MOT



READY RAIL

shrank brothers dragster never shrinks from competition



"THE STORY OF MY LIFE"

By Andy, as told to Don Jolley



or, you can take it with you ... provided you don't particularly want to.





USTOM



nation's most anticipated cycle race ends as "no contest"!

FOR STAFF MEMBERS of Hot Rod, Car Craft, Kart and R&C awaiting the 40th annual Big Bear Hare & Hound with butterflies flitting about the lower regions, tension eased only after the race had begun – but therein lies a tale: In the past several years the event with its giant entry of near one thousand riders has started earlier than planned. Stretched out over a half mile long starting line the anxious riders become as jittery as a herd of cattle in a thunderstorm and harder to control, A dropped banner was to be the signal to get them under was to be the signal to get them under way at 9:30 AM, January 8th. At 9:18, with a hundred bikes still in the pits, one member of the sponsoring Orange County MC slipped and a side of the banner plunged. Riders on the line, feet poised on starter levers under the starter levers. on starter levers needed no more. Sensing the false start, many remained, joined by the latecomers in the pit area, Starting checks were made but not completed as the banner fell legally at 9:30. Some riders went on though disqualified in hopes the mess could be resolved in vain, the ruling was "No Contest."

photos by pat brollier

When the starting banner partially dropped by accident, Checker Marsh Merideth got under way with some 400 riders taking the false start flag .



only to be disqualified after the san 42 mile first loop. Over 300 riders stayed . .



, for the legal start 12 minutes later and stormed through the auto-lined pit lanes to ...



...romp off through the sage and rocky canyons of the second log's 54 miles. The distance...



... began to tell as less experienced riders tired from the grind and fell by the trailside.



Pit action at the second gas check was hectic as some crews went into action while others waited.

MAY, 1961



Third loop territory encompassed the mountain tops near Big Bear lake with patches of snow...



... and rocks like you can't believe. Riding techniques after 165 miles got slappy, even for the more experienced riders like Fred Moxley. The Snal ruling by the AMA was most disheartening. 45

no slouch on the street, the '61 Matchless is really ...

HOT IN THE

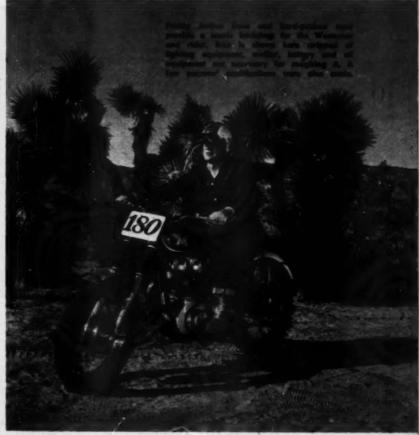
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DESERT

By Lynn Wineland

THE SEVEREST TORTURE CHAMBERS to which a man may subject his motorcycle are found in the weekly Hare and Hound races across the varied, always rugged terrain of southern California's Mojave desert. Rocky beds of tire-slashing lava fragments, miles of bottomless sand washes filled with jagged, brush-concealed stones, ditches, bumpy road crossings and steep, shale hills combine to wreak destruction on the unwary sider who ventures near. Difficult to traverse



photos by pat brollier, motorcycling news, lynn wineland

HOT IN THE DESERT

continued

under any conditions, the landscape becomes all the more torturous as racing speeds are attained. It was to this pit that we willingly and happily condemned the 1961 Matchless Westerner.

The Associated Motorcycle Company of London, England, with over sixty years of experience in the manufacture of Matchless cycles believes in sending a man to do a man's job. The robust 500 ce Westerner is well equipped to contend with the rigors of the battering desert events to say nothing of providing thousands of reliable miles of comparatively easy road riding. The ability of the Matchless to not only withstand but truly absorb the shocks of cross country racing is indicative of the longevity and cushioning qualities to be experienced in street use.

"Phenomenal" was the word we used after taking a friend's Westerner for a quick tour through the desert sage following a recent Hare and Hound and it was then that we selected the new Matchless as the subject for our current test. Dropping by the offices of The Indian Company Western Division in Burbank, California, local distributors of the Matchless line, we were allowed to select a new machine, still in the crate, for our use, "Setting up" the bike gave us an opportunity to carefully examine the quality workmanship as assembly took place. Although supplied with knobby tires for rough-housing off the road, the Westerner is completely equipped with street riding items such as muffler, battery, horn, head and taillights, and speedometer. Firm believers in the slow break-in, we tenderly nursed the new machine through 500 miles of commuting about Los Angeles streets and freeways before trotting out to our first session in the sod and sand. Make no mistake, the Matchless is ready to roar right out of the box, though fitted out in a compromise between strictly-for-street and all-out competition trim. The thirty-and-a-half inch single shown here and on the preceding pages was stripped of all items superfluous for chasing the rabbit and has been slightly modified in a manner

found to be more to this rider's personal liking and riding abilities.

Overall appearance and layout of the Westerner is well above par. This is a vehicle on which the average or larger rider feels at ease. The bars are situated nicely at the back of the steering head, sweeping up and back to provide comfortable hand positioning on the grips. The rider sits more nearly above the rear wheel than on many machines, an asset in improving tractive qualities. Foot pegs, sturdy, short, and blunttipped for safety are logically placed to allow the frequent leg exercises necessary when riding the rough stuff to be performed without undue muscular strain. The twinseat is wide and adequately padded so that no framework is felt on the insides of the thighs when bouncing offside, though some riders prefer a shorter, thicker and softer saddle for pure competition use. Layout of the controls is in standard pattern for the English machines with rear brake foot lever on the left and shift at the right. An indicator fixed to the shifting lever indicates gear selection. Right hand throttle action is fast, in competition tradition, Clutch, front brake, compression release, spark and choke controls are on the bar in standard placement. The headlight, fitted with ammeter and dimmer switch is bracketed from the front fork top covers and may be quickly removed for dirt riding by unscrewing two bolts and pulling the multi-pronged master plug. Switching on the lights is controlled from a panel just below the seat at the rider's left, forward of the 3 quart oil tank. Black enamel paint is used in copious quantities on the-frame and accessories, offset by buffed aluminum and chrome, Standard tank color for the Westerner is red, striped in wide and narrow bands of silver,

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The Smiths speedometer is mounted to the steering crown by a single bolt adequate for street usage, but too little support for the heavy instrument in cross-country riding, resulting in bracket fatigue and breakage on two occassions. A shock-mounted unit appears to be the practical solution to this problem as well as preserving the instrument itself from accuracy-destroying vibration, a big factor in enduros.



In the pits prior to start of Big Bear H&H, adhesive-backed tank card is applied so the crews at checkpoints can mark bike to indicate passage through check. Matchiess was running in top form and eager for the fray. Carburetor was tuned for 3,000 ft. altitude.

Deep, sandy trail is welcome after dropping down rocky mountainside. Big Bear run was a machinery buster in zome sections though Matchless/Indian withstood battering without horm. Feather on helmet indicates that to be an Indian rider you must look like one.

The front forks are as exciting in action as they are beautiful in appearance. The buffed alloy sliders are capped with chromed spring covers which slip inside the enameled top covers, For dirt use many riders replace the metal items with accordion-style rubber boots to preven dust from harming the action of the 2-way, oil damped Teledraulic units. A sensational ride is to be experienced as rock and brush seem to miraculously disappear beneath the telescoping front supports. So vivid was our impression that we returned to our own machine with a sign reading, "For Sale - One Brick - Cheap."

The 3.50 x 19 Dunlop Trials Universal tire at the front is well supported by the sturdy, chromed hoop and staunch, butt-jointed spokes leading to the cast alloy hub. The hub is quite deep, yet light and well supported by interior webs, providing wider support for the tapered wheel bearings, and increased





Timing side of 500cc engine reveals clean design with integral push rad tubes visible through fins on cylinder barrel, Matchless flying "M" appears on com cover over chain leading to lucus magneto, Toolbox behind cylinder has wingnut to secure hinged cover.



Drive side is dominated by buffed aluminum primary chain cover, albeit somewhat exposed to rocks because of frugal skid plate between loops of double tube frame. Gas tank mount pedestals are rubber snubbed. Plastic medallions on tank are easily broken in dirt.







Control layout is neat with handles and levers grouped in conventional manner on nicely swept, not-loo-long handlebars. Gas cap takes some seating-in before leakage slops. First few tanks were kept purposely low to prevent any spilling. Gas tank is attractively striped. Amal Monobloc carburetor is well filtered by air cleaner in baffled cannister housing. Battery is just below filter, has main wiring system below seat with horn, light switch and regulator. Four-speed transmission is small in size but rugged and very dependable. Tool kit supplied with scooter is complete with grease gun, tire irons, spanner for rear shock adjustment, clutch tool, point wrench and gauge, circlip pilers, standard pliers, adjustable jaw wrench, hexagon and spork plug wrenches and Whitworth open ends.

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Comparison of 1960 (upper) and '61 (lower) oil pump parts clearly shows change made by Matchless to assure positive pressure and adequate supply of oil to crank and valves under all conditions. Spiral was extended equivalent to half again as much travel.

HOT IN THE DESERT continued

spoke angle over that of the more common hubs gives greater resistance to side loads. The front brake is excellent in design, action and appearance. The actuating lever is tucked behind the left fork tube where it is protected from accidental application by hitting obstacles in the trail.

Of extremely rugged constitution, the twin tube frame swings down from the steering head to form a duplex cradle for the engine. The top bar, hidden by the rubber mounted, three gallon fuel tank, is bracketed to the uppermost part of the engine, thereby dampening vibration and at the same time rendering the engine a basic part of the frame structure. The frame aft members are securely bolted to the front section providing easy replacement of any pieces which might become damaged as well as permitting the frame assembly to flex slightly in action and ease stresses.

Coming on like Jack the Bear at a twist of the right wrist, the horsepower developed from the low end right on up the scale by the thirty-and-a-half cubic inch single is enough to make even the most blase rider grin from ear to ear. Nearly "square" in bore-to-stroke ratio



Alloy sliders with chrome extensions in top spring covers create beauty in functional front forks. Axle is secured by caps similar to familiar auto connecting rod. Alloy fenders are trim, good looking and help keep down weight as well as splashing in wel weather.

the 3.39" diameter 3-ring aluminum piston travels 3.36 inches in the ironlined alloy barrel. Valve seats are cast into the light alloy, die-cast cylinder head, seating the generous size, chrome plated, Stellite-tipped valves at 78° to the bore in the hemispherical combustion chamber. Cam action is from individual, gear driven camwheels actuating Hiduminium pushrods with screwed-in steel tips riding in hardened steel mushroom tappets. Valve springing is by duplex hairpin springs. Down in the lower end, the forged con rod rides on 14 roller bearings set in a Duralumin cage on a two-piece crank-pin made up with a hardened steel sleeve over the 85-ton alloy steel center pin, Individually balanced flywheels bracket the crankpin with the outer journal on the drive side supported by a double row of ball bearings and the timing side journal riding in roller bearings and a bronze bush. The oil pump, feeding pressure to all moving parts is of the double plunger, rotary reciprocating type, beefed up for '61 by extension of the spiral gear.

Of exceptional interest is the exterior of the engine which is the cleanest design to be found on any bike, Beauti-

continued on p. 60

9 h



THE MINI-BIKE

a boon to mobile mankind

CONTINUED

Mini-bike does not pretend to compete with the vehicular facilities presently in use for these important public services.

It is sometimes mentioned that the noise factor - as yet associated with the standard Mini-bike - would constitute something of a problem. The answer, here, is quite logical. Before motorized vehicles were invented and introduced to the public, a much lower sound-level prevailed. It's no secret that life was a much quieter proposition in the day of the horse and buggy. Still, gifted with the ability to comfortably adjust, mankind accepted the noise of the automobile...and adjusted his hearing-level and his speech-level to compensate for the added cacphony of idling and racing engines.

So it would be with Mini-bikes, Mankind would simply adjust to the slight increase in sound and, probably without realizing it, never be aware that such an adjustment had ever taken place. It must be remembered that mankind met and survived (indeed, triumphed over) daytime radio and hi-fi and, more recently, stereo-sound in a similar fashion.

The one, remaining question many doubters will raise is one of speed. How, they may ask, can transportation be maintained at the present speeds, most of them necessary to crossing the country without requiring four-months in which to accomplish the journey, were Mini-bikes to provide the national mode of mobility? The answer is simple and advantageous: Transport by Mini-bike would, of necessity, be a bit slower and more enjoyable. And safer. What the nation might seemingly lose in excessive speed, it would certainly gain in contentment and sheer, leisurely joy. Yet the Mini-bike is capable of speeds which spirit the rider quickly enough to his destination.

The next time you find yourself enmeshed in honking, racketing traffic ask yourself if the world would not be a happier place were Mini-bikes the method of transportation. As those fellows behind you start their dreary fistfight and the chaps in front of you lean madly on their klaxon-buttons, and your eyes roam over the entire, unhappy, noisesome and wretched traffic snarl-up - try to visualize such a terrible instance ever occurring were maneuverable Mini-bikes beneath all those harried, nerve-wrecked individuals around you instead of those standard-size, clumsy automobiles lined up bumper to bumper for miles.

And, as you fidget there in the late afternoon sun among your traffic-tired fellows, give the Mini-bike some thought. Great idea, isn't it!



Championship Thrills with a Peanut Budget



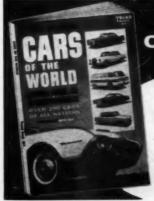
Championship Thrills with a Peanut Budget ... are yours with the popular Go Kart Greenhorn Enduro or Go Kart Scrambler Cycle. Use it for transportation, racing, fun, cow-trailing, anything ... anytime.

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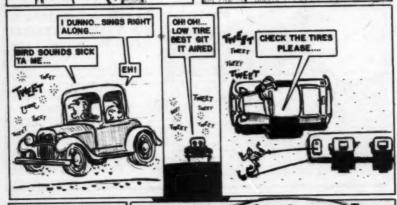


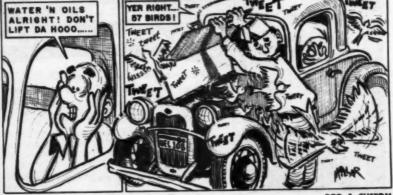
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FOX GO-BOY CARTS BOX 797 R, JANESVILLE, WISCONSIN



Dear Doane,

I am building a flathead for my '40 Ford coupe. Being I am married and in the Service I have very limited funds. So my questions are these: If I intend to bore oversize is there any difference between the stock '40 and a '48 Merc block? Can I bore the stock '40 out as far as the Merc? If so, I would like to, using stock pistons. Since this will be driven on the street everyday I see no need for racing pistons, I am told the '52 Merc crankshaft can be used in this engine without modification giving it a longer stroke. Are these pistons satisfactory also or are there some other type you would suggest? As you may be able to tell, this is my first rod and I would like to do it as well as possible, as inexpensive as possible. Any help that you can give will be greatly appreciated.

> A/2c William W. Morrison 903rd RADAR Sqdn (SAGE) Gettysburg, South Dakota

The '40 Ford and '48 Merc blocks are definitely different, Bill. The Merc can be bored to 3\%" with a good safety factor, while a Ford can go no bigger, safely, than 3-3/16". The Merc crank will fit into the '48 Merc block with no modifications, but remember to order \%" low compression pistons when instalmling the longer Merc crank.

Dear Doane,

In your December issue of R&C I noticed an article on "Chariot of the Sun" so I read it just out of curiosity. It stated that this '34 Ford was a Phaeton. I could be wrong but isn't it a Ford Touring Car? A Phaeton has windows that roll down into the doors, this ancient Ford does not have windows and most likely it has side curtains in place of the windows, I would like to know if I am right or wrong.

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One final thing is that I have a '59 Rambler "6" with a stick and would really like to know how to get a little more performance from it without

spending too much money.

I have been a reader of ROD & CUS-TOM for the past year and a half and I think it is the greatest.

> Arthur F. Krauss Flushing, N. Y.

You are absolutely right in one sense, Art, it is a Ford touring car, which is synonymous with Phaeton. The dictionary states "a Phaeton is a light 4-wheel carriage with or without a top, having one, or more, commonly two, seats facing forward." The word Phaeton was used incorrectly by Mercury when they described their 4-door town sedan in '57. As for your Rambler "8"—a mill job on the head and a ground camshaft would do quite a bit toward making a "goer".

Dear Doane,

I am interested in getting some information on an engine swap that I plan to do in the near future. The engine is a new Ford 390 cubic incher backed up with a hydro stick. My trouble is with the rear end, I plan to retain the preforty-eight rear. What I would like to know is what year Ford made an open drive shaft? I plan to split the rear torque arms and mount them on the frame. One last question; can you install a quick change rear with the open drive shaft?

James Stiles Patton Montgomery, West Virginia

To answer your last question first, Jim, Halibrand makes a quick change for an open drive-shaft, using '48 Ford housings. If you don't go to the quick change you can use '42-'48 Ford pickup gears in your torque tube Ford rearend, as the pickup gears are for an open drive line.

Dear Doane,

I'm a reader of ROD & CUSTOM Magazine and always read your "Tech Specs". My problem is my clutch. I have a '51 Oldsmobile with an overhauled 1954 Olds engine, 324 cu. in., 185 hp. (3%" pistons + .040"). Attached to it there is a '37 La Salle transmission, but I don't seem to get the right clutch for it. I have a heavy duty pressure plate and stock clutch, should I try a GMC pickup clutch? How big can I go on the size? Hope you'll help me.

Xavier Belmont Alhambra, Calif.

P. S. I'm on my third clutch, HELP!

I just go for your magazine.

Apparently you have been using stock factory lining on the disc and inadequate pressure plate pressure. Would suggest – Rusco Fuse Fabric lining on the disc and 24-2600 pounds minimum pressure plate. The stock 11" Olds 88 disc should be adequate with the above lining.

Dear Doane,

My problem is not uncommon but I can't seem to find a solution for it so I am pleading for some professional ad-



vice. My problem is "eating dust" on a 1/4 mile oval dirt track. I would like to know just how to build a good stock. Club rules limit me to 300 cubic inches, no engine newer than a 1953 and no GMC's or OHV V8's. I have a '32 Ford coupe body and if you can give me your opinion of what to put with it I will be more than grateful. I have been thinking of a Buick straight 8 but I don't know what bore and stroke to use or what cam to use. If you can refer me to someone who had had luck with Buick straight 8's I would appreciate it, I know I must sound like a 5-year-old child to you but I am 29 and I have built and driven my own cars since 1954, (just about as long as I have enjoyed reading ROD & CUSTOM) I am at a loss as to how to combine this Buick and Ford. I need to know what ignition to use, how to modify the carb (carb and outside must remain stock). No aluminum finned heads or dual carbs, etc. Also need to know what chassis, springs, shocks and differential to use, and what gear ratios. Also, tire sizes to run. Where to position engine for best handling and what front end and steering you would recommend. Hoping to hear from you soon, and thanks for whatever help you can give.

Pete FeDora Vestal, N. Y.

I would suggest keeping your '32 Ford all Ford. While old straight 8 Buick's are keen for anchors, I wouldn't say they would do too well for quartermile dirt tracks. As your club limits you to 300 cubic inches I would suggest a 38" x 36" Merc, using Phil Weiand "cheater" heads which are regular racing heads with standard outside appearance. Would also suggest using the wide selection of Getz gears somewhere in the neighborhood of 51/2-1; this way you won't have to run the car in second gear with the normal 4.11's or 3.78's. The engine should be positioned as far back as the rules will permit, for this varies with associations. As to the front end and steering, the Ford front end decambered works out good with a Franklin or similar steering of about eight-to-one ratio.

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HOT IN THE DESERT

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fully finned and massive in appearance due to enclosure of all lines and pushrod tubes within the barrel casting, the 500 single appeals because of ease in cleaning. Fewer places for leakage and lack of outside paraphenalia lead to a dry-running engine where dirt won't cake and cut down on cooling efficiency. The primary chain case is of cast aluminum, easy to remove for maintenance, and is provided with large inspection holes for chain and clutch adjustment. The clutch action is smooth, due in part to the rubber vane shock absorber used on the multi-plate unit.

Gear ratios provided by the fourspeed, synchromesh gearbox with stock rear wheel sprocket are near ideal for general street and cow-trailing use. Low is 14.85, 2nd is 9.85, 3rd is 7.08 and the top ratio is 5.80:1. Shifting is smooth, though some difficulty in finding the neutral position between 1st and 2nd while at rest occurred after the box had

worn in a bit,

Fire for the "thumper" is provided by a water proofed Lucas magneto with a breather pipe to allow deep water crossings without drowning out. The ignitor sits forward of the barrel and is chain driven from a sprocket mounted on an extension of the exhaust cam, Fuel is metered through an Amal Monobloc 389/12 carburetor with a venturi diameter of 1%6". Good economy and idling characteristics are to be experienced with the Monobloc, yet throttle response leaves nothing to be desired once proper jet sizes and needle setting have been attained. Tuning is critical on any small displacement engine and the Matchless thirty-incher is no exception when top performance is desired. For the dry atmosphere of the desert, at a median altitude of some 3,000 feet we found it necessary to decrease the main jet size some one hundred thousandths and lower the needle to the top notch, thus leaning the mixture all through the range. Some hesitation still occured when rapidly cracking the throttle before full power was felt so the slide was filed %6", the equivalent of going from a #3 to a #5 slide. This corrected the deficet in response and we were thrilled at the staccato rap of the exhaust as the wick was turned up. The action was conveyed to the seat of the pants as well, for with the alertness of a burglar alarm the mount does its best to spring from between your legs and go sight-seeing.

One item worthy of its salt which Matchless has seen fit to install is the more than adequate air filter. Logically located directly behind the anglemounted carburetor, the cylindrical housing has an integral baffle to protect the cleaner from a direct blast of water, sand or dirt. The cleaner element itself slips inside the frame-mounted cannister and connects to the carburetor bell with a tubing-reinforced rubber hose. The element is a square of flannel cloth between wire mesh, accordion pleated and rolled to slip between two tubes of perforated steel. Felt rings and steel caps protect the ends, with the end opposite that which ducts to the carburetor supported at the rear of the housing, Lightweight oil such as inexpensive cooking oil is used to saturate the filter cloth prior to use. After effectively screening the powdery alkaline dust encountered in several hundred miles of rabbit chasing we spent a moment to remove the cleaner, inspect it and service it. The inside of the cleaner was free of silt, though the exterior was well coated with oily grime, Gasoline quickly washed away the dirt, more oil was applied and the filter replaced with about fifteen minutes expended in the job. We are familiar with some filters which take hours to remove, clean, oil and replace.

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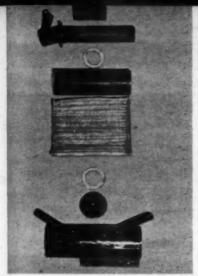
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Worthy of mention in the same breath are the two stands provided on the machine. Both of these fold well out of the way. The center stand is located behind the somewhat skimpy skid plate, held in the up position by a strong return spring and steel clip. The side stand or prop stand is also springloaded to the up position, but fails to arouse enthusiasm with many riders who prefer an over-center lock to prevent the stand from swinging up before

bidden.



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Excellent air fliter is more complex than outside indicates, Perforated tubes slip inside and out of screen-reinforced, cloth filter element folded in accordion pleats. Baffles are seen at bottomside of housing.

The rear swinging arms which locate the rear wheel are hefty tubing with forged axle fitting brazed to the ends. The pivot point, located directly behind the transmission at the frame center down-tube, is well braced to prevent twisting and has large diameter, selflubricating bushings with the cross tube acting as an oil reservoir. Rear suspension is by oil-damped spring units, easily adjustable to one of three positions to suit the weight of the rider. The spring/shock units are covered with enameled and chromed covers to keep out the dirt as well as increase the cosmetic effect of the bike. For pure competition many owners remove the top, painted cover and replace it with the lower, chromed one in inverted position. This modification prevents any possible tendency to bind if dented.

The rear hub and brake unit are similar to the front, being of cast alloy with internal webbing. The brake and 42-tooth, 50 pitch chain sprocket are bolted to the hub with six bolts and stop nuts. A shield covers the hub on the right side and a rubber plug allows

access to the grease fitting. Spokes from the hub to the 19-inch rear wheel are butt-jointed for strength without bends and are washered to prevent pulling through the hub. Spoke diameter is exceptionally generous, due no doubt to the factory's speculation as to how much punishment might be inflicted when their torquing single attempted to put its power on the ground by way of the 4.00 x 19 knobby Dunlop Sports.

Attached to the rear hub inner axle, the speedometer drive unit is virtually free of trouble and requires but little lubrication. Placement of the speedometer cable is another story; the factory runs them straight up, then forward to the instrument. A severe bump at the rear causes the wheel to bounce, bending the cable – generally into the tire, and there it is grasped by the tire knobs and snatched violently. Forewarned, we quickly re-routed the cable forward along the swing arm and there it has remained, troublefree.

Extending back from the aft frame section, a hoop brace, strong enough to be used as a lifting handle when needed, supports the wide, alloy rear fender and provides a mount for the taillight

continued on p. 65

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McCulloch Introduces new MC-20

STRENGTHENING THEIR hold on the limelight as producers of the kart engines which currently hold more national records and championship wins than any other marque, the McCulloch Corporation of Los Angeles recently set before the public a sample of the latest in two-strokes, the MC-20. Substantially more powerful than the renowned MC-10, its immediate predecessor, the "Mac Twenty" boasts a full 5.8 cubic inch displacement to put it right at the top of existing racing classes. Compression ratio of the ten pound engine is right at 9:1, providing plenty of punch as the rpm reaches an exhilarating 15,000. A new carburetor shares honors in improving horsepower output. Big %-inch venturi for low air flow restriction and diaphragm fed fuel system with adjustable idle and high speed jets are prime features.

Similarity to the MC-10 ends with exterior glances. A thorough viewing reveals a new die-cast aluminum alloy cylinder and crankcase with cast iron liner and removable head. Fins are generous for best cooling under severe conditions of use. Oversize pistons are available for those to whom displacement limits are no obstacle. Ignition is of the flywheel magneto type with points readily accessible. Price is held low relative to the power obtainable—just \$137.50 for the familiar McCulloch yellow garbed mill, further enhanced by a chromed engine shroud and polished carburetor.

We're betting on the new 'Twenty to be as reliable, successful and popular as any of its famous forerunners.



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HOT IN THE DESERT

Continued from p. 61

and license bracket. A seemingly small thing, perhaps, but to this rider who has experienced having to lift 'em out of a hole dug by too much throttle and not enough momentum, the handle factor of this brace is a strong point indeed.

Exhaust noise is always a factor on the singles – called "poppers" for obvious reasons. When muffled for street use they often suffer a serious loss of power. If the compromise is to power, irate neighbors lose respect for the sport. The Matchless seems to have found the answer in a muffler of pleasing proportions, yet one which silences well enough to pass the most critical without devastating power loss. In addition, the muffler may be removed for racing leaving a proper length of pipe for tuned output, exhausting well to the rear of the rider.

The physical analysis of the '61 Matchless indicates an exciting potential. As with the pudding, the real proof lies in following through with its intended use. We subjected the Westerner to over 1,000 miles of grinding desert use in addition to the original break-in. It performed faultlessly throughout, requiring only routine maintenance in addition to the relatively minor repair of the speedometer bracket. The rides were engagingly, deceptively easy and this novice rider found himself riding competitively with a whole new group, well in advance of former performances. Downhills are negotiated with ease by a squeeze of the compression release which converts the engine to a huge air pump and allows the rider to float down in the gear of his selection. Uphill trails fall beneath the tires and sloggy sandwashes become freeways as speeds of over 50 mph are attained. Choppy sand and fast cross country are equally the meat of the Matchless, its superb combination of long, 55%-inch wheelbase and great leading angle of the front forks teaming up to flatten any terrain.

Did we like the bike? How impressed can you get? Let it suffice to say that we bought one. This machine is, in words of the manufacturer: Matchless.



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CHATTANOGGA TENNESSEE

MAY, 1961

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CUSTOM



JIM HURTIBISE, 1960's FASTEST Indianapolis qualifier, stared at the picture on the wall. Sharing his concentration of glance was LeRoy Neumayer, one-time partner in rods with Art Chrisman, now a leading contender in Mid-West "big car" racing.

The object of their gaze was a photograph of George Burkhardt's haulin' highboy, the 212 mph lakes roadster. Both Neumayer and Hurtibise had been out of touch with rodding for some time, and hadn't realized how fast the boys were packing-down ol' El Mirage these days. But what was even more interesting to me was Hurtibise's comments on drag racing.

Better publicized than the lakes meets, the drags are well-known to the professional racing fraternity. Men like Hurtibise and Neumayer know their "who's who" of drag racing, and apparently never cease to marvel at the current going's on.

Jim remarked something to the effect that he was appalled at the amount of injuries and fatalities racked up in drag racing compared to the comparable record of professional racing. "You'd be better off at the Brickyard" was the way I believe he put it.

Hurtibise further stated he believed an equal level of skill was required; bearing out the point made in a previous "Just Chattering" that the only safe dragster drivers are the good ones; and that to be good enough you have to be as proficient at drags as the Indy drivers are at getting around the Brickyard.

Both these seasoned, yet still young, competitors gave the impression that most of their colleagues thought anyone who took the kind of risks dragster drivers do "for free" was a little soft in the noggin. And at this point the tie-in between dragster drivers threatening (periodically) to "go professional" began to acquire some new meaning for me,

Let's see now: Item One, professional race drivers think dragster drivers are taking big chances. Item Two, some dragster drivers think they should get paid for their performances. Possible Conclusion: That those who scream the loudest for professionalizing this amateur sport may be those who are scared the worst!

Hurtibise and Neumayer should get paid if they drive a dragster—or any other kind of competition car. After all, it's their business. But should the guy who has another line of work, that races ostensibly for fun, get paid for his driving? I don't think so; at least not without a complete separation from amateur competition.

Think of all the things that you don't like about drag racing today, and then see how many of them would disappear if the pros and the amateurs weren't running on the same strip. Athletics proved the impossibility of mixed pro-amateur competition; what are we trying to prove?

THE LATEST IN SPEED 1961 SECRETS FROM THE EDITORS OF HOT HOT ROD MAGAZINE

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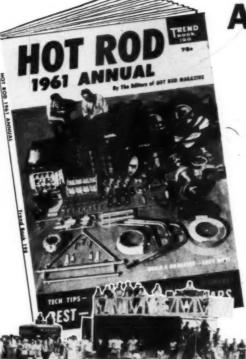
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